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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,310	07/25/2003	Cydney C. Brooks	ADY-009	1899	
959	7590 11/04/2005		EXAMINER		
	COCKFIELD, LLP.		MITRA, RITA		
28 STATE S' BOSTON, M			ART UNIT PAPER NUMBE		
<i>D</i> 051011, 11	0210)		1653		
			DATE MAILED: 11/04/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)	
		10/627,310	BROOKS, CYDNEY C.	
	Office Action Summary	Examiner	Art Unit	
		Rita Mitra	1653	
Period fo	- The MAILING DATE of this communica r Reply	ation appears on the cover sheet	vith the correspondence address	
A SHO WHIC - Exten after S - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAI sions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commun period for reply is specified above, the maximum statule to reply within the set or extended period for reply will sply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUN 37 CFR 1.136(a). In no event, however, may a ication. tory period will apply and will expire SIX (6) MO I, by statute, cause the application to become a	ICATION. The reply be timely filed ENTHS from the mailing date of this communication	
Status	·			
2a) <u>□</u> 3) <u>□</u>	Responsive to communication(s) filed This action is FINAL . 2b Since this application is in condition fo closed in accordance with the practice)⊠ This action is non-final. r allowance except for formal ma	· ·	ì
Disposition	on of Claims			
5)□ 6)⊠ 7)□ 8)□ Application 9)⊠ -	Claim(s) 1-26 is/are pending in the application (s) 1-8 and 13-2 Claim(s) is/are allowed. Claim(s) is/are allowed. Claim(s) 9-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction are subject to restriction are specification is objected to by the Infer drawing(s) filed on 25 July 2003 is. Applicant may not request that any objection Replacement drawing sheet(s) including the oath or declaration is objected to be	Examiner. /are: a) ☐ accepted or b) ☒ object to the drawing(s) be held in abeyone correction is required if the drawing	ected to by the Examiner. ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d	d).
Priority u	nder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International ee the attached detailed Office action	ocuments have been received. Ocuments have been received in the priority documents have been all Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO nation Disclosure Statement(s) (PTO-1449 or PT No(s)/Mail Date)-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)	

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DETAILED ACTION

Status of the Claims

Applicant's election with traverse of IX in the reply filed on September 19, 2005 is acknowledged. The traversal is on the ground(s) that Group X at least should be rejoined with Group IX because searches of the subject matter of Groups IX and X would be coextensive and there would be no undue burden on the Examiner to search the subject matter of the two groups. This is found persuasive. Accordingly, restriction between Groups IX and X is withdrawn. However, because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement with respect to the other Groups, the remaining election has been treated as an election without traverse (MPEP § 818.03(a)).

The requirement is still deemed proper and is therefore made FINAL.

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Claims 1-8 and 13-26 withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on September 19, 2005.

Therefore, claims 9-12 are currently under examination.

Objection to the Specification

Abstract is objected to because of the following informalities:

The abstract should include the steps in the methods of the invention.

The specification is objected to because the specification describes sequences that are set forth in the "Sequence Listing" and embedded in the text of the specification at pages 2, 31, Figure 3, however no reference is made to the sequence by use of the sequence identifier, preceded by "SEQ ID NO:" See 37 C.F.R. § 1.181(d). This objection may be overcome by providing sequence identifier to the embedded sequences.

Objection to the Claims

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Claims 9-12 are objected to because the claims describe a sequence that is set forth in the "Sequence Listing" and embedded in the text of the specification, however no reference is made to the sequence by use of the sequence identifier, preceded by "SEQ ID NO:" See 37 C.F.R. § 1.181(d). This objection may be overcome by providing sequence identifier to the claims.

Claim Rejections - 35 USC § 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

"The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention."

Claims 9-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 9-12 are indefinite because the abbreviation "FHOS" is not fully spelled out. It is unclear what "FHOS" is. The full spelled out words should precede an acronym/abbreviation.

Claim 12 is indefinite because of the use of the term "portion." It is not clear which portion of the amino acid sequence of FHOS protein, whether it is N-terminal or C-terminal. It is also not clear what is the position of that portion in relation to the amino acid sequence of full length FHOS protein.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 9-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Tojo et al. (US 2004/0072742 A1, published April 15, 2004, priority date December 20, 1999). The reference

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teaches a protein or a partial peptide and DNA encoding the same are useful as preventives/remedies for diseases. Tojo et al. also teaches a method of screening a compound that inhibits the binding of said protein and partial peptide to insulin responsive aminopeptidase (IRAP) or to glucose transporter 4 (GLUT4), wherein said compound is used as a preventive /remedy for diseases, e.g., hyperglycemia, diabetes mellitus (see abstract, paragraph 0031 at page 2, 0037 at page 3, 0197 at page 13, 0207 at page 14, 0221, 0224 at page 16, 0492 at page 33), wherein the test compounds are selected from peptides, proteins, non-peptide compounds, synthetic compounds, fermentation products, cell extracts, vegetable extract, animal tissue extracts and blood plasma (see 0226 at page 16, Examples 2, 9, 0493 at page 33). Tojo's protein II includes a human spleen derived protein containing the amino acid sequence of SEQ ID NO: 2, that is highly homologous (substitution of 9 amino acids in the total 1164 amino acids, that is 99.2% sequence identity) to FHOS protein described by Westendorf et al. (Gene, 232, 173-182, 1999, Genbank Accession NO AF113615). See Figures 6-11, 16, 0085 at page 5, SEQ ID NOs: 2 and 4, Examples 2, 9. Tojo's protein is having the structure of the claimed FHOS protein of instant application considered anticipating the binding of the claimed protein to IRAP or GLUT 4 (claims 9, 10, 11). The partial peptide of Tojo is considered for the portion of the FHOS protein of instant application (claim 12). Therefore, claims 9-12 of the instant application are being anticipated by Tojo et al.

Conclusions

No claims are allowed.

Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita Mitra whose telephone number is 571-272-0954. The examiner can normally be reached on M-F, 10:00 am-7:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Jon Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rita Mitra, Ph.D.

October 26, 2005

JON WEBER

SUPERVISORY PATENT EXAMINEH